

**Commonwealth of Kentucky  
Division for Air Quality**

**PERMIT APPLICATION SUMMARY FORM**

Completed by: Andrew True

GENERAL INFORMATION:

Name:	Texas Gas Transmission LLC - Midland III Compressor Station
Address:	650 Highway 175 South Bremen, KY 42325
Date application received:	6/20/2007
SIC Code/SIC description:	4922, Natural Gas Transmission
Source ID:	21-177-00066
Agency Interest:	44340
Activity:	APE20070001
Permit:	V-05-017 R1

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input checked="" type="checkbox"/> Permit modification	<input type="checkbox"/> Conditional major
__Administrative	<input checked="" type="checkbox"/> Title V
__Minor	<input checked="" type="checkbox"/> Synthetic minor
<u>X</u> Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

#### EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM <sub>10</sub>	1.98	7.57
SO <sub>2</sub>	0.133	0.34
NO <sub>x</sub>	30.48	147.86
CO	35.97	113.57
VOC	3.52	32.33
Single HAPs	1.40	7.06
Source wide HAPs	4.20	18.19

#### SOURCE DESCRIPTION:

Texas Gas Transmission, LLC Midland 3 Compression Station is the owner and the operator of the plant, which is a major source for emissions of nitrogen oxide (NO<sub>x</sub>) and carbon monoxide (CO), and is a minor source for emissions of volatile organic compounds (VOC), particulate matter (PM), sulfur dioxides (SO<sub>2</sub>), and hazardous air pollutants (HAPs).

This plant produces liquid hydrocarbons from natural gas pipes entering the plant. Natural gas is currently compressed through the two compressors of 2050 hp each, the third compressor of 2610 hp, and additionally through two Turbine Compressors of 61.21 million British thermal units per hour (mmBtu/hr) each. Permit V-05-017R1 will allow Texas Gas Transmission, LLC Midland 3 Compression Station to construct and operate one additional Turbine Compressor (TB03), replacing two natural gas compression engines (RC01 and RC02).

#### EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

To preclude a PSD review, there are operating restriction of 11,600 total operating hours per calendar year on the two new Turbines (TB01 & TB02) each having 61.21 mmBtu/hr capacity. This restriction is necessary to limit the NO<sub>x</sub> potential emissions from the turbines to less than 40 tons per year, the PSD significance level.

#### OPERATIONAL FLEXIBILITY:

NA